

Mathematische Zeitschrift

Band 196 · 1987

Herausgegeben von / Edited by

W. P. Barth, Erlangen

E. Becker, Dortmund

K. Diederich, Wuppertal

G. Faltings, Princeton

H. Heyer, Tübingen

W. Klingenberg, Bonn

C. C. Moore, Berkeley

H. H. Schaefer, Tübingen

L. Smith, Göttingen

W. v. Wahl, Bayreuth

Wissenschaftlicher Beirat / Advisory Board

T. tom Dieck, Göttingen · B. Eckmann, Zürich

E. Heinz, Göttingen · J. Herzog, Essen

K. H. Hofmann, Darmstadt · A. Pfluger, Zürich

H. Salzmann, Tübingen · K. Zeller, Tübingen



Springer International

"**Mathematische Zeitschrift**" was founded in 1918 and edited by *L. Lichtenstein* in cooperation with *K. Knopp*, *E. Schmidt* and *I. Schur*; after Lichtenstein's death, 1933, it was edited by *K. Knopp*. The Editorial Committee was increased to include *E. Kamke* and *F.K. Schmidt* in 1933, *R. Nevanlinna* in 1936 and *H. Wielandt* in 1950. The latter became Managing Editor in 1952. He was succeeded in 1973 by *H. Salzmann* and 1977 by *H. Heyer*. As of 1984 *W.P. Barth* and *W. v. Wahl* are the managing editors.

Die "**Mathematische Zeitschrift**" wurde im Jahre 1918 von *L. Lichtenstein* unter der Mitwirkung von *K. Knopp*, *E. Schmidt* und *I. Schur* gegründet und herausgegeben. Nach dem Tode Lichtensteins übernahm *K. Knopp* 1933 die Herausgabe. Die Schriftleitung ergänzte sich 1933 durch *E. Kamke* und *F.K. Schmidt*, 1936 durch *R. Nevanlinna* und 1950 durch *H. Wielandt*, der 1952 die Herausgabe übernahm. 1973 ging die Federführung an *H. Salzmann* und 1977 an *H. Heyer* über. Seit 1984 sind *W.P. Barth* und *W. v. Wahl* geschäftsführende Herausgeber.

Manuscripts may be sent to / Manuskripte nehmen entgegen:

W.P. Barth, Mathematisches Institut der Universität, Bismarckstr. 1½, D-8520 Erlangen, Federal Republic of Germany

E. Becker, FB Mathematik, Universität Dortmund, Postfach 50 05 00, D-4600 Dortmund 50, Federal Republic of Germany

K. Diederich, Gesamthochschule, Fachbereich 7, Mathematik, Gaußstr. 20, D-5600 Wuppertal 1, Federal Republic of Germany

G. Faltings, University of Princeton, Dept. of Mathematics, Fine Hall - Washington Road, Princeton, New Jersey 08544, USA

H. Heyer, Mathematisches Institut der Universität, Auf der Morgenstelle 10, D-7400 Tübingen, Federal Republic of Germany

W. Klingenberg, Mathematisches Institut der Universität, Wegelerstr. 10, D-5300 Bonn, Federal Republic of Germany

C.C. Moore, Department of Mathematics, University of California, Berkeley, CA 94720, USA

H.H. Schaefer, Mathematisches Institut der Universität, Auf der Morgenstelle 10, D-7400 Tübingen, Federal Republic of Germany

L. Smith, Mathematisches Institut der Universität, Bunsenstr. 3-5, D-3400 Göttingen, Federal Republic of Germany

W. v. Wahl, Mathematisches Institut der Universität, Postfach 10 12 51, D-8580 Bayreuth, Federal Republic of Germany

Copyright

Submission of a manuscript implies: that the work described has not been published before (except in the form of an abstract or as part of a published lecture, review, or thesis); that it is not under consideration for publication elsewhere; that its publication has been approved by all coauthors, if any, as well as by the responsible authorities at the institute where the work has been carried out; that, if and when the manuscript is accepted for publication, the authors agree to automatic transfer of the copyright to the publisher (society); and that the manuscript will not be published elsewhere in any language without the consent of the copyright holders.

All articles published in this journal are protected by copyright, which covers the exclusive rights to reproduce and distribute the article (e.g., as offprints), as well as all translation rights. No material published in this journal may be reproduced photographically or stored on microfilm, in electronic data bases, video disks, etc., without first obtaining written permission from the publisher.

The use of general descriptive names, trade names, trademarks, etc., in this publication, even if not specifically identified, does not imply that these names are not protected by the relevant laws and regulations.

While the advice and information in this journal is believed to be true and accurate at the date of its going to press, neither the authors, the editors, nor the publisher can accept any legal responsibility for any errors or omissions that may be made. The publisher makes no warranty, express or implied, with respect to the material contained herein.

Special regulations for photocopies in the USA: Photocopies may be made for personal or in-house use beyond the limitations stipulated under Section 107 or 108 of U.S. Copyright Law, provided a fee is paid. This fee is US \$0.20 per page, or a minimum of US \$1.00 if an article contains fewer than five pages. All fees should be paid to the Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970, USA, stating the ISSN 0025-5874, the volume, and the first and last page numbers of each article copied. The copyright owner's consent does not include copying for general distribution, promotion, new works, or resale. In these cases, specific written permission must first be obtained from the publisher.

Printers: Universitätsdruckerei H. Stürtz AG, D-8700 Würzburg

© Springer-Verlag, Berlin Heidelberg 1987

Springer-Verlag GmbH & Co. KG, 1000 Berlin 33

Printed in Germany

Inhalt/Contents

| | |
|---|-----|
| Aiena, P.: A Characterization of Riesz Operators | 491 |
| Akutagawa, K.: On Spacelike Hypersurfaces with Constant Mean Curvature in the de Sitter Space | 13 |
| Athanassopoulos, K.: D^+ -Stable Dynamical Systems on 2-Manifolds | 453 |
| Avrin, J.D.: Energy Convergence Results for Strongly Damped Nonlinear Wave Equations | 7 |
| Ballico, E., Ellia, P.: The Maximal Rank Conjecture for Non-Special Curves in \mathbb{P}^n | 355 |
| Borchers, W., Sohr, H.: On the Semigroup of the Stokes Operator for Exterior Domains in L^q -spaces | 415 |
| Buchner, M.A., Kucharz, W.: Almost Analytic Local Algebraicity of Analytic Sets and Functions | 65 |
| Byczkowski, T., Inglot, T.: Gaussian Random Series on Metric Vector Spaces | 39 |
| Cheng, J.H.: On the Curvature of CR-Structures and its Covariant Derivatives | 203 |
| Doman, R.: On Rational co-Hopf G -Spaces | 109 |
| Dore, G., Venni A.: On the Closedness of the Sum of Two Closed Operators | 189 |
| Ellia, P., s. Ballico, E. | 355 |
| Elstrodt, J., Grunewald, F., Mennicke, J.: Vahlen's Group of Clifford Matrices and Spin-Groups | 369 |
| Eschenburg, J.H., Schroeder, V.: Riemannian Manifolds with Flat Ends | 573 |
| Espuelas, A.: A Noncoprime Shult Type Theorem | 323 |
| Friedberg, S.: Poincaré Series for $GL(n)$: Fourier Expansion, Kloosterman Sums, and Algebro-Geometric Estimates | 165 |
| Galusinski, G.: Retractions régulières | 315 |
| García Hernández, J.L., Gómez Pardo, J.L.: On Endomorphism Rings of Quasiprojective Modules | 87 |
| Gibert, S., Mukherjea, A.: Products of Infinite-Dimensional Non-Negative Matrices; Extension of Hajnal's Results | 485 |
| Gnuschke-Hauschild, D.: On the Angular Derivative of Analytic Functions | 591 |
| Goerss, P., Lannes, J.: Realizing Unstable Injectives | 239 |
| Gómez Pardo, J.L., s. García Hernández, J.L. | 87 |
| Graham, C.C.: A Uniform Boundedness Principle for Compact Sets and the Decay of Fourier Transforms | 331 |
| Greim, P., Jamison, J.E.: Hilbert Spaces have the Strong Banach-Stone Property for Bochner Spaces | 511 |

| | |
|--|-----|
| Grunewald, F., s. Elstrodt, J., et al. | 369 |
| Hafner, J.L.: Some Remarks on Odd Maass Wave Forms (and a Correction to [1]) | 129 |
| Harris, M.E.: Filtrations, Stable Clifford Theory and Group-Graded Rings and Modules | 497 |
| Horn, G.: Classification of JBW^* -triples of Type I | 271 |
| Horst, C.: Compact Varieties of Surjective Holomorphic Mappings | 259 |
| Inglot, T., s. Byczkowski, T. | 39 |
| Jamison, J.E., s. Greim, P. | 511 |
| Jiménez, J.A.: Existence of Hermitian n -Symmetric Spaces and of Non-Commutative Naturally Reductive Spaces | 133 |
| Knop, F., Littelmann, P.: Der Grad erzeugender Funktionen von Invarian- tenringen | 211 |
| Kozono, H.: On a Decay Property of Weak Solution for Semilinear Evolu- tion Equation of Parabolic Type and Its Applications | 21 |
| Kroó, A., Peherstorfer, F.: Interpolatory Properties of Best L_1 -approx- imants | 249 |
| Kucharz, W., s. Buchner, M.A. | 65 |
| Kuhn, N.J.: The Transfer and James-Hopf Invariants | 391 |
| Lannes, J., s. Goerss, P. | 239 |
| Leung, K.-W., Patrizio, G., Wong, P.-M.: Isometries of Intrinsic Metrics on Strictly Convex Domains | 343 |
| Littelmann, P., s. Knop, F. | 211 |
| Mennicke, J., s. Elstrodt, J., et al. | 369 |
| Miró-Roig, R.M.: Stable Rank 3 Reflexive Sheaves on \mathbb{P}^3 with Extremal \mathcal{O}_3 | 537 |
| Mœglin, C., Waldspurger, J.L.: Modèles de Whittaker dégénérés pour des groupes p -adiques | 427 |
| Monksy, P.: Class Numbers in \mathbb{Z}_p^d -extensions. IV | 547 |
| Mukherjea, A., s. Gibert, S. | 485 |
| Nakazato, H.: Invariant Dissipative Operators on Locally Compact Groups | 141 |
| Noell, A., Ramey, W.C., Ullrich, D.C.: Complex-Tangential Sets and Boundary Values in Submanifolds of the Boundary | 1 |
| Novak, E.: A Decomposition of Measures in Euclidean Space Yielding Error Bounds for Quadrature Formulas | 407 |
| Patrizio, G., s. Leung, K.-W., et al. | 343 |
| Peherstorfer, F., s. Kroó, A. | 249 |
| Peternell, Th., Potier, J. le, Schneider, M.: Direct Images of Sheaves of Differentials and the Atiyah Class | 75 |
| Potier, J. le, s. Peternell, Th., et al. | 75 |

| | |
|--|-----|
| Ramey, W.C., s. Noell, A., et al. | 1 |
| Rigoli, M., Salavessa, I.M.C.: Conformal and Isometric Immersions of Riemannian Manifolds | 293 |
| Robinson, A.: The Extraordinary Derived Category | 231 |
| Salavessa, I.M.C., s. Rigoli, M. | 293 |
| Sancho de Salas, J.B.: Correction to Semicontinuity for the Local Hilbert Function | 301 |
| Scharlau, W.: On Trace Forms of Algebraic Number Fields | 125 |
| Schmitt, L.M.: Order Derivations on L^p -Spaces of W^* -Algebras | 117 |
| Schneider, M., s. Peternell, Th., et al. | 75 |
| Schroeder, V., s. Eschenburg, J.H. | 573 |
| Sohr, H., s. Borchers, W. | 415 |
| Suciu, A.I.: Immersed Spheres in \mathbb{P}^2 and $S^2 \times S^2$ | 51 |
| Ullrich, D.C., s. Noell, A., et al. | 1 |
| Ulrich, B.: Vanishing of Cotangent Functors | 463 |
| Valentini, R.C.: The Deuring-Šafarevič Formula Revisited | 59 |
| Venni, A., s. Dore, G. | 189 |
| Vogelsang, V.: Remark on Essential Selfadjointness of Dirac Operators with Coulomb Potentials | 517 |
| Vogt, D.: Tame Spaces and Power Series Spaces | 523 |
| Waldspurger, J.L., s. Mœglin, C. | 427 |
| Wallach, N.R.: A Class of Non-Standard Modules for Affine Lie Algebras | 303 |
| Wong, P.-M., s. Leung, K.-W., et al. | 343 |

Covered by *Zentralblatt für Mathematik and Current Mathematical Publication*